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## SPF/DB

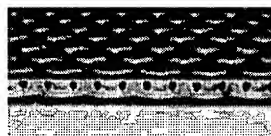
Integral Construction by  
Superplastic Forming with Diffusion Bonding



We develop and produce complex sheet-metal parts on our SPF/DB hot-press to high quality standards derived from aerospace industry: an ideal basis for economic development and cost effective small run production. By using our advanced SPF/DB-technology

we enable our customers to use completely new and innovative solutions:

- ✓ volume objects with part integration of highest complexity,
- ✓ greater design freedom and
- ✓ more economical production.



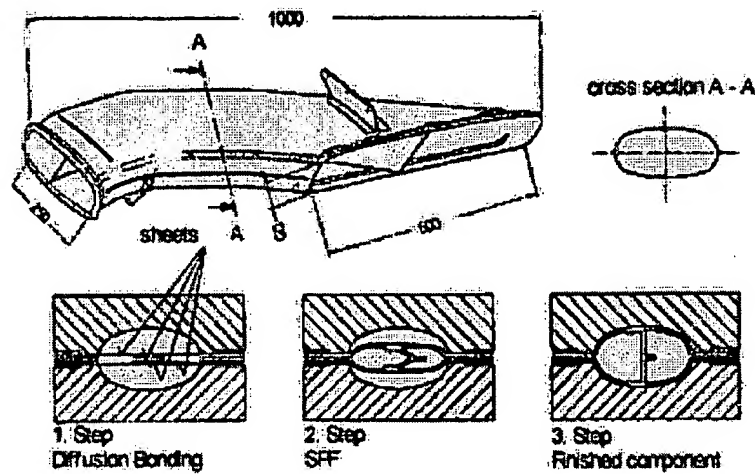
SPF/DB: a method for economic manufacture of three-dimensional objects and sandwich structures.

Technology: A separating agent is placed on defined areas between titanium sheets. Temperature of over 900 °C and gas pressure are applied,

the unmasked areas are bonded by DB. The flat sandwich is inflated - integrated webs are formed by SPF.

**SPF/DB = Super Plastic Forming / Diffusion Bonding**

[SPF](#)[SPF/DB](#)[Comp. Present.](#)[Representative Office](#)[Meetings](#)[References](#)



## SPF/DB - Parts

Integrated reinforced parts using sandwich technology

Extended design freedom for titanium alloys

Integral construction with high strain forming

Integrated SPF/DB-process reduces production steps

Savings through

higher part integration

reduced production steps

more economical processes

? FormTech GmbH - 2003

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